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SEQUENCE LISTING

(1) GENERAL INFORMATION: ~~SECRET~~
SERVICE CENTER

- (i) APPLICANT: Ruddy, David A.
Wolff, Roger K.
- (ii) TITLE OF INVENTION: POLYMORPHISMS IN THE REGION OF THE HUMAN
HEMOCHROMATOSIS GENE
- (iii) NUMBER OF SEQUENCES: 24
- (iv) CORRESPONDENCE ADDRESS:
(A) ADDRESSEE: Pennie & Edmonds, LLP
(B) STREET: 1155 Avenue of the Americas
(C) CITY: New York
(D) STATE: NY
(E) COUNTRY: USA
(F) ZIP: 10036-2811
- (v) COMPUTER READABLE FORM:
(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: Windows
(D) SOFTWARE: FastSEQ for Windows Version 2.0b
- (vi) CURRENT APPLICATION DATA:
(A) APPLICATION NUMBER: 08/852,495
(B) FILING DATE: 07-MAY-1997
(C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
(A) APPLICATION NUMBER:
(B) FILING DATE:
- (viii) ATTORNEY/AGENT INFORMATION:
(A) NAME: Poissant, Brian M
(B) REGISTRATION NUMBER: 28,462
(C) REFERENCE/DOCKET NUMBER: 8907-0057-999
- (ix) TELECOMMUNICATION INFORMATION:
(A) TELEPHONE: 650-493-4935
(B) TELEFAX: 650-493-5556
(C) TELEX: 66141 PENNIE

(2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 235038 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

CACACACACA CACACACACA CACACACACA CACACAAATG AGGTATATAA AGGGTCTCCT 60
AAATGTCAT CTGATATTTG TTATTTTATA TTCTCAGATT TTTAATCCAT TTAGGTAGGT 120
CTATTTTAGA TAGCCTTGTC TGAAACAGAG CTGGGACCTG ATGAGTGAAA ATGAGCTCAC 180

CAGAAGAAAA	ATCAAACAGG	CATTTTCAGAG	ATTGAGGCCA	AGAAGTTAAA	TGTCTTAAAT	240
GGGCAGAGCT	TAGCTGCTTG	ATGTGAAAAG	AGACCAGCGT	GGCTGGAACA	GCAAAGGAGA	300
ACAGCAGAAAG	AGGTGAACAG	AGGCCAGAGA	TGGTCACTGA	GTGGGCCCTT	AAGTCATGGT	360
AAGGAGTATG	GAGAATGAAT	TATTGCATGT	ATTGAATATG	TAGGTGACGT	GACTCACAGA	420
TACTTTGGAT	TTGTAGAGAT	GAAGGAAATG	TAGCAAGTGA	CACTCTTAGA	ATGTTGATTT	480
GAGTAAATGG	TAGTGTCACT	TATTGAACTG	GGGAGAACTG	GAAGGGATAA	CAGGCTTAAG	540
GAGCACGTTT	ATTCCTGTGT	CTTGGAAGTG	TTTAGGGTGA	AAGACCTATT	AGAGTTCTAA	600
ATGGAGATGT	CAAGTGAAAA	TGTGGCTACA	CACATTTGCA	TTTCAGAAAA	AAGGTCAGGC	660
TGGAGATGTA	AAATTGGAAG	TTTACTGCAT	ATAGATAGTC	TTTGGAACCG	TAGTATTGAT	720
GAAGCCATTA	ATGAGACAGA	ACAAAGACTA	GGGACCAGAG	CCAAGCTCCA	AGTTTCTAAA	780
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AATGGATATG	GTTATCTGCC	TGGTGTCTGT	GAAATAATTT	AAGCCAGGAA	GAGATCCTCA	960
CCAGAACTG	ACTATGCTGG	CAACTTGGAT	CTTAGATTTT	CAGCCTGCAG	AATTGTTAGA	1020
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GACTAAGTTT	TGGTACCCAG	GCGTGGGATG	CTGCAACAAC	AAATACCTAA	ACATGGGGAA	1140
GTGGCTTTTG	AAATTGGTGA	TGGGTAAAGG	CTGGAAGAGT	TTGAGGTTCA	TACTAGAAAA	1200
AGCCAATTGT	GAAGGGACTA	TTGAAAGAAA	TATGGACATT	AAAGGCAATT	CTGGCAAAGG	1260
CTCAGAAAGG	AAGAGAGCTG	GACAGAAAGC	TTCCATTTTC	ATAGAAACTT	AGATTTATAA	1320
CGATCATGGA	TAGAATATTA	AATATGCTGG	TTAAATATATG	GACTTTAGGC	CAGGCGTGGT	1380
GGCTCACGCC	TGTAATCTCA	GCACTTTGGG	AGGCTGAGGG	CACAGATCAC	GAGGTCGGGA	1440
GTTTGAGACC	AGCCTGGCCA	ATATGGCGAA	ACCTGTCTC	TACTAAAAAT	ACAAAAATTA	1500
GCTGGGCATG	GTGATGTGCT	TCTGTGGTCC	CAGCTACTCG	GGAGGCTGAG	GCTGAAGAAT	1560
CGCTTAAACC	CGGGGGGTGG	AGGTTGCAGT	GACCCAAGAT	CACACCACTG	CACTCCAGCC	1620
TGGGATACAG	AGCAGGACTC	CACTCCCCCC	GCCACACACA	CACAAAAAAT	ATATATATAT	1680
GGACATTAAA	GTCAACTCTT	GTGAGGTCTC	AGATGAAAAT	GAGGGACAGG	TTATTGGAAA	1740
CTGTAGAAAT	CACTGTTCTT	GTTACAATGT	GTCAAGAACT	TGGCTGAATT	ACGCTGTAGT	1800
GTTTACTGGA	AAGAACTTAT	AAGCAGTAAA	ACTGGATATT	TACCAGAAGA	GATGTCTAAG	1860
CAAAGTATTG	AAGGTGTGAT	TTAGGTCCTC	CTTACTGCTT	AAAGTGAAAT	GTGAGAGGAA	1920
AGAGCCGAAA	TAAAGAAGGA	ATTTTTAAGC	AAAACACAAT	CAGAACTTGG	AGATTTGGGA	1980
TAGATTTCTC	AATCTATATT	GTAAAAATTG	AGAAAGTTTT	TCTTGAAGAG	GTATGGTTGA	2040
ACAATGTTTT	CTTTTTCTTT	TTTTTCTTG	GTTTTATTTT	TATTTTTATG	TTTTTTGAGA	2100
CAGGGTCTGG	CTATGTCATC	CAGGCTGGAG	TGCAGTGGCA	CAATCTCAGT	TCAGTGCAAC	2160
CTTTGCCTTC	AGGCTCAAGC	AATCCTCCCA	CCTCAGCCTC	CTAAGTAGCT	GGGACTACAT	2220

GTATGCACCA	CCACACCCTG	GCTAATTTTT	TGTTGTTGTT	TATAGAGATG	GGGTTTTGAC	2280
ATGTTGCCTA	GGCTGGTCTC	TAACTCCTGA	GCTCAAGTGA	TCTGCCCTCC	TCAGTCTCCC	2340
AAAGTGTTGG	GATTACAGGC	GTGAAACACT	GAGCCTAGCC	TGAACAACCA	TTTGATAAAG	2400
AGATAATGGG	TGTGACCCAA	GGATTTAATC	AGCCATCTCA	GCAGAAGCCA	GGAAGAGAGA	2460
TGGGATTATT	CCAGCAGAGA	CACTGCCAAT	TTAAACTAAC	GTAGGCAGAG	AAAACAGAAA	2520
GGAACAAAGG	AAGGTTGTCTG	ACTTTTTGAA	TTCTATAGAA	CAGGATCATA	GAGCTACCTG	2580
GCTGTCAATG	TGTACTATTC	TTTAAGAAAA	GGAAAGACTG	ACCCACCAAA	GGCAACTTAC	2640
AAGATCACTA	GGGCTGACTC	TTTTGTTTTT	TCTTGAGGCA	GTCTCACTGT	CACCCAGGCT	2700
GTAGGGCAAT	GGTGTGATCT	CAGCTCACTG	CAATCTCCAC	CTCCCAGGTT	CAAGGGATTCT	2760
TCTTGCCCTA	GACTCCCAAG	TAGCTGGGAT	TACAGGCTCT	AAATCTGTAC	CCTCCCGAGT	2820
AGCGCTCCTG	CCACCACTTG	CCCAGCTAAT	TTTTGTATTT	TTAGTAGAGA	TGGGGTTTCA	2880
CTATGTTGGC	CAGGCTAGTT	TGGAACTCCT	GACCTCCAGT	GATCCATTCT	CATTGGCCTC	2940
CCAAAGTGCT	GGGATTACAG	GCAGGAGCCG	CCAGGGCTGC	CACTTTGATG	TCAGACTCAG	3000
AGAGTACAGA	TGGGATAGGG	TGGGGGTGGG	AACATGTAGT	CAAGGCTGAC	TCTACCTGTT	3060
TCAAAGATGC	CCTGCAGAAC	TGTGTGGGAG	TCTCTCACAG	ATGGCTGCCT	GGGTGGGACC	3120
CCACCAAACCT	GAAAGACCGA	GACTTCAGGC	AGGGCAGATG	GAGTAGGCCA	ACTACAGAGC	3180
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TTTCTTAAGA	CCTAACAGAA	TTTGCCTTGC	CAGGTTTTTG	ACTTGATTAG	GACACATTAC	3300
ACCTTCCTTC	TTTCCTATTT	CTCCATTTTC	TAATGGGAAT	GTCTATTATG	CCTGTTTCAC	3360
CATTGTACCT	TAGAAGCATG	TAACATTTCT	GGTTTCACAC	GTTCAAAGCT	GGAAAGGAAT	3420
TTTGCTCTG	GATGAATCAC	ACATTGAGCC	TCACCCGTAA	CCTGATTTAG	ATGATTTTTT	3480
AGATGACACT	TTGAACTTTA	GAATTGATGC	TAGAATGAGT	TAAGACTTTC	AGGGGGCTGT	3540
TGGGATGGAA	TAATTTTTTT	TTTTTTTTTTG	AGACGGAGTC	TAGCTCTGTC	GCCCAGGCTG	3600
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CATGTCTCAG	CCTCCAGAGT	AGCTGGGACT	ACAGGCGCCC	GCCACCACGC	CTGGCTAATT	3720
TTTTTTTTTAT	TTTAGTAGAG	ATGGGGTTTC	ACCGTGTTAG	CCAGAATGGT	CTCGATCTCT	3780
TGACCTTCTG	ATCCGCCTGC	CTTGGCTTCC	CAAAGTGCTG	GGATTACACG	TGTGAGCCAC	3840
CATGCCCGGC	TGGGATGGAA	TAAATTTATC	TTGTATGGGA	GAAGGACATA	CATTTTGGCA	3900
GGTCAAGGAC	AGAATGTTAT	GGAATAAACT	GTGTCCCCCA	AAATTCATTT	ATTAAAACCC	3960
TAAACCCAG	TGTGACTGCA	TTTGGACATA	GAGCCTTTAG	GGGGTACATA	AAACTAAAGA	4020
TCACAGGATA	GGGCCCTAAT	CCCATTGGGG	CTGGTGTCCCT	TACAGAAGAT	GAGACACTTA	4080
GAGCTCTCTC	TCCACGCAGG	CACCAAGGAA	ACACCATACA	AACACACAGT	GAGATGGCAG	4140
CCATCTGTTA	GCCAGGAACA	GATTCTCACC	ATAAACTATG	TTGGCACCTT	GATCTTAAAC	4200
TTCCAGGCTC	CAAACTGTG	AGAAAATGAA	TTTCTGTTCC	AAGCCTCTTA	GATATGGAAA	4260

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CATGTTGGCT	CCTTTACTCT	GCCCAAATA	CAACTCAAAC	AAACAACGTG	AATATAATAA	4500
CATCCAATGA	AGTTCCTGACA	TTTCTTCAAC	ATGAGTACAG	TAATTCAATG	CCAGAGAATT	4560
CATTTTATTT	TGAAATCTAC	ATGCCATATT	CCAATTTCTG	TTGAAGATGC	AATGGTTATA	4620
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GCATTTGAGA	GGCTGAGGTG	GGCATATCAC	CTGAGGTCAG	GAGTTTGAGA	CCAGGCTGGC	4740
CAACATGGTG	AAACCCTGTC	TCTACTATAA	ATATAAAAAAT	TAGCTGGGTG	TGGTGGTGCA	4800
TGCCTGTAGT	CCCAGTTACT	AGGGAGGCTG	AGGTAGAATT	GCTTGAACCT	GGGAGCAGGA	4860
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TGGTACAATA	TTAAGTATTG	AAATAAAATA	GAGAATCCTG	TCGCTACACA	TGAGCACTTA	5100
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AGTGGGCATT	TCAAAGTAGA	AGGTAAAGTA	TTTTGGAGAT	GAGGAGACAG	GACAGAGCTA	5820
CGAGGAATGT	CCTTTGCTTA	GGGACTAGGC	TCTTAGCAGT	ACCTCTTAGG	TAAGAACTGG	5880
TTAACTGGCA	CCTTCTGTGT	TTCTCTGAAG	CTCCCTTTGC	TTAGGGACTA	GGCTCTTAGC	5940
AGTACCTCTT	AGGTAAGAAC	TGGTTAACTG	ACACCTTCTA	TGTGTCTGAA	GCTCCCAGAA	6000
CAAACTGCCA	GTGAAATTTG	GATTTTTTGA	ATATAGTTTC	TTTTTTCTTG	TTACTTTTTG	6060
TTTTGTTGTT	TTTTTTTGAG	AGTCTCACTC	TCACTGCAAC	CTCCCCCTCC	TATATTCAAG	6120
TGATTCTCTT	GCCTCAGCCT	CCCAGAGTAG	TGGGACTACA	GGCGTGCAC	AGCATGCCCA	6180
GCTAATTTTT	GTATTTTTTA	GTAGAGATGG	GGTTGGTTTT	TTTTTGAGAC	GGAGTTTCAC	6240
TTTGTGCCCC	AGGCTGGAGT	GCAGTGGCAC	GATCTTGGCT	CACTACAACC	TCCACCTCCC	6300

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GGTGAACACC	GCCACACCTG	ACTAATTTGT	GTAGTTTTAT	TAGAGATGGG	GTTTCGCCAT	6420
GTTGGCCAGG	CTGGTCTCAA	ACTCCTGACC	TCAGGTGATC	TACCCACCTC	AGCCTCCCCA	6480
AGTGCTGGGA	TTACAGATGT	GAGACACCAG	ATCAGCCTCA	GAAGACATTT	TCTATTGGAA	6540
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TTATCAGTAT	TTGAATAAGA	GGGGGTCTAC	ATCTTAAGTA	CTGCTTAAGA	TGAAAGCCTC	6780
TAGGTTAACA	AACTTAACAC	AATGTATCAT	TCACTACTAA	ATAGACCGAA	TACAAAATCT	6840
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TCACCACAAT	AAGTCAGTTG	CACCAAGTCT	TGTAGCTCTT	TACTGAGCCA	TGTTTTACAG	6960
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CTTACAACCT	AAGTTCTTTA	AGCTGTTTCT	TAGTTTGCTC	ATCTCAAAT	TCGGAATAAG	7320
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AAGCAAACAA	ACAAAAAAT	GCAGAAACCG	AGATCCGGAA	GAAAACCTCG	GCGAGATTCA	8520
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CACTGTTGCC	CAGGCTGGAG	GGCAGTGGCA	CGATCTCGGC	TTACTACAAC	CTCCGCCTCC	8700
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CACCACGCCC	AACTTATTTT	TTTATTTATT	ATTTTTATTT	AGTAGAGAGG	TGTTTCACCA	8820
TGTTGGCCAG	GTTAGTGTCT	AAGTCGTGAC	CTCAGGTGAT	CAGCCCCCTC	GGCCTCCCAA	8880
AGTGGTAGGA	TTAGAGGGGT	GAGCAGAAAG	CAAAGGTTTT	TGAGTGGCCA	CAGGCCCCAC	8940
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TAACTCTCAC	AGAATTAGGA	AAGTGAGGCT	GCCTACAGCC	TAAATTGAGA	AAAAAATAGA	9180
CGGGGGACTA	GTCGGAGGAC	CAAACAAGGT	TACCAACACG	TTAGAGTTTT	GCCTTCAATT	9240
TACATTTTTA	AAGTAATCAC	AACGAAGTGT	TTAGATCACG	AGGCATCCCT	GCATGTAAAC	9300
TGTTAGGCAC	TAACTATGGT	CGATCTTACA	AAGCATTAAC	TAGAATATTT	CTTTAGAGTA	9360
TGATAGTACG	TAACTGACCT	ACTATTACAT	ACAAACAGAC	CAACCTTTAG	TAACAGCGCT	9420
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TAAGATGCCT	GAGCCAGCCA	AGTCTGCTCC	CGCCCCGAAG	AAGGGCTCCA	AGAAGGCAGT	10380

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TGGGGTCAAT	TCGTTGTGCT	TAAATTTAAA	ATGGAGACAA	GCGGCCATTT	TGCTAACTCG	10980
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TACGTCGCCA	GGATCAACGG	TTGCCGTAAT	GTCATAATTT	CGCCACCAGC	TTCTAGCCAA	11100
TAGGCTGTCC	TGTCATTTTA	AATATTAACC	AATCGAGGGA	AAGCTGTTTT	GAGACTCTGA	11160
TTTACATAGC	GGACCGGAGT	GGGAACCTGG	GCAGTAACTG	CCTAAGGAAG	GACTCCCCCT	11220
CTGTTTTTCGT	GGCGCACACC	TTCGTAGTAT	ACTGAAGGGT	GTGTCTCCTG	GGTTTCCAAC	11280
TGCCCCGGTA	ATAGTCTTTT	AACCTAATAT	GCGTCAGTTT	TGATAACAAC	ACTAAGGCAG	11340
TACAGAACTA	AAGATGTAAG	CACTGCGCCA	GATGTTGCTT	CATACATCTT	ATTCTATTCA	11400
ACTGGTTTAT	TCAAGATTCA	AATCAAATCA	AATTTTGCTT	GAATCCCAGT	GCTCAGTCAG	11460
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AGACAAGTTT	GAAAGTTGCT	TTAGGAGAAG	CCAACCTCTA	ACTGCTGGGT	AAATTGACAA	11580
GCCTTCGAAC	ACTGAACTGA	AGGCCAGTAA	GGACTAGGCG	CTGGGTGGGG	GAGAATGAAG	11640
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ACAAGTGCAG	GCCGCTTTGT	GGCCTGGGAA	ATTCCACATT	CCCTTAAGTA	TTTTACTCAT	11760
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TCAATAAAAAT	CATGCAGTAT	ACAATACAAT	ATACATTTAT	TAAAGTATAT	GCATTTTTTAA	37440
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TTCTAGGCAT	CTAAACTACT	GAATGTAGTG	GTGTCTGAGA	TGTATCAAAC	GGTCAGATTG	38640
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CATGCCATTC	TCCTGCCTCA	GCCTTCCGAG	TAGCTGGGAC	TACAGGCGTC	TGCCACCACG	38880
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(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 237326 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

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AGCCGAAATA	AAGAAGGAAT	TTTTAAGCAA	AACACAATCA	GAACCTGGAG	ATTTGGGATA	1980
GATTTCTCAA	TCTATATTGT	AAAAATTGAG	AAAGTTTTTC	TTGAAGAGGT	ATGGTTGAAC	2040
AATGTTTTCT	TTTTCTTTTT	TTTTCTTGGT	TTTATTTTTA	TTTTTATGTT	TTTTGAGACA	2100
GGGTCTGGCT	ATGTCATCCA	GGCTGGAGTG	CAGTGGCACA	ATCTCAGTTC	AGTGCAACCT	2160
TTGCCCTCAG	GCTCAAGCAA	TCCTCCACC	TCAGCCTCCT	AAGTAGCTGG	GACTACATGT	2220
ATGCACCACC	ACACCCTGGC	TAATTTTTTG	TTGTTGTTTA	TAGAGATGGG	GTTTTGACAT	2280
GTTGCCTAGG	CTGGTCTCTA	ACTCCTGAGC	TCAAGTGATC	TGCCCTCCTC	AGTCTCCCAA	2340
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GGATTATTCC	AGCAGAGACA	CTGCCAATTT	AAACTAACGT	AGGCAGAGAA	AACAGAAAGG	2520
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TGTCAATGTG	TACTATTCTT	TAAGAAAAGG	AAAGACTGAC	CCACCAAAGG	CAACTTACAA	2640
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GTAGGGCAAT	GGTGTGATCT	CAGCTCACTG	CAATCTCCAC	CTCCCAGGTT	CAAGGGATTC	2760
TCTTGCCTTA	GACTCCCAAG	TAGCTGGGAT	TACAGGCTCT	AAATCTGTAC	CCTCCCAGGT	2820
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CTATGTTGGC	CAGGCTAGTT	TGGAACCTCT	GACCTCCAGT	GATCCATTCT	CATTGGCCTC	2940
CCAAAGTGCT	GGGATTACAG	GCAGGAGCCG	CCAGGGCTGC	CACTTTGATG	TCAGACTCAG	3000
AGAGTACAGA	TGGGATAGGG	TGGGGGTGGG	AACATGTAGT	CAAGGCTGAC	TCTACCTGTT	3060
TCAAAGATGC	CCTGCAGAAC	TGTGTGGGAG	TCTCTCACAG	ATGGCTGCCT	GGGTGGGACC	3120
CCACCAAAC	GAAAGACCGA	GACTTCAGGC	AGGGCAGATG	GAGTAGGCCA	ACTACAGAGC	3180
CAGAGGTGAC	ACTGAGACAC	CACTGGGCCT	GGAAATCAGG	GCATCAAGCC	AAAGAGGGTT	3240
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CATTGTACCT	TAGAAGCATG	TAACATTTCT	GGTTTCACAC	GTTCAAAGCT	GGAAAGGAAT	3420
TTTGTCTCTG	GATGAATCAC	ACATTGAGCC	TCACCCGTAA	CCTGATTTAG	ATGATTTTTT	3480
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TGGGATGGAA	TAATTTTTTT	TTTTTTTTTG	AGACGGAGTC	TAGCTCTGTC	GCCCAGGCTG	3600
GAGTGCAGTG	GCACCATCTT	GGCTCACTGC	AAGCTCTGCC	TCCCGGGTTT	ATGCCATTCT	3660
CATGTCTCAG	CCTCCAGAGT	AGCTGGGACT	ACAGGCGCCC	GCCACCACGC	CTGGCTAATT	3720
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GAGCTCTCTC	TCCACGCAGG	CACCAAGGAA	ACACCATACA	AACACACAGT	GAGATGGCAG	4140
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ACGTTTCAGCT	AAGACGTAGT	GCCCCATGGC	TCCTCCTGTG	GAGACAAGAG	ACCCAGGAAA	40020

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CTTAACAAAT AGTCTGACAC AAAGTGGATA TAACAATATT TTGAATTATG AATAACTAAA 233880
TGAATATTTT CAGATTTTCCT GGTGCTCTCA AAGTTTTATG TTACAAAAGA AAAACAAGTC 233940
TAAATACCT GCCTCAAGTT TTTATCTGTA CTATGATTTT AAACCAAATA AAAACAGGT 234000
GGGGTAAAAA CTGAAACAGG AAATACATAT AACTGAAAAA TTTTGGTATG TTAGTATGAT 234060
AATACTAGGT CATTTTTCCT GTTTCCTCAA CTTCATTTT TATAGCAATA AAAAGAAACA 234120
AGTAAATGTA TGTTAATTTA ATTTAAAAGA AGTAGTCTAC CATCTCTTCT GTTAAAAAGA 234180
AAAAAGTATT TTAATAAATT ATCTCTGGAA GGATACACAG GGAACATTGC TCTGGTTTCT 234240
TCCAAGAGAG AAATGAGGAA CTAGAGAGCA TGGCCAAGTG GGGTTTTGCT TTTGTTTTTG 234300
TTTGTCTATC TGTTAGCTTT TTATTATTTT CTTTGTAGG TTTGAATTTT AAACCACATA 234360
AATCTGTTAC ATGCTCATAA TAATAAGTTT AAAATAAAAC TTTTGGCTGG GTGCAATGAC 234420
TTACACCTGT AATCCCAGCG CTTTGGGAAG CAGAGGTGGG AGGATACTTG AGGCCAGGAA 234480
TTTGAGATCA GCCTGGGCAA CATAGTGAGA CCCTGCCTCT GTAGAAATAA ACAAAAATTA 234540
GCTGGATATG GTGGTGCATG CTTGTACTCC TAGCTACTTG GGAGGTTGAG GCAGGAGGAT 234600
CCTTTGAGTC CAGGAGTTTG AGGCTGCAGT GAGCTATAAT CACCCACTGC ACTATAGCAT 234660
GGGCAATAAG GTGAGAACTT GTCTCAAAAA AAAAAGGGGG GGGGGAAACA AATAAATAAA 234720
TATAAACAAA ACTTTTGTTT CAAAATATGT AATATTTAGC ACTAAAGAAT TCTGAATTGT 234780
AGAGCTAAAA AGTACTTAAA AGTTAATAAC TATTGTCTCC TTAAAAGAA TTGTTATCAA 234840
AGTATAATTT TTATCCAGAA AATCATCCAT ATCAGCAAGC TAACTTTTCT CAAAATGACA 234900
TATCCATGTA ATTAGCTCCC AGGTAATTAG CAGGCAGCCT CTACTCAGGT TGAGTATTCC 234960
TAATCTAAAA ATTGGAAATT CAAAATGCTC CAAAATCTGC AACTTTTTGA ATGCTAACAT 235020
GATTCTCAAA GGAGTGCTCA TGGAGTATTT CAGATTTTGG ATTTTGGAT TTGAGATACT 235080
CAGTATAATG CAAACATTCC AAATCTGAAA AAATCTGAAA TACTTCTGGT TCTAAGCATA 235140
AGGGATACTC AACGTGTGTT AGCTAATTAG ACCCTTCATG GTCTCTTCTA GACCTCAGCT 235200
TCTTCAAGGT AACCTCTATC CTCACTTCTA ATAGCATGAA CTTTCTGTT TTAGAATAAT 235260
TTGGATTTT AGGAAAGTTG CAAAGATAGT ACAAAGACAG TACAGGAGAG TTCCCATATA 235320
TCTTTCACCT AGCTTTCCTT CATTGTTAGG ATTTTACATT ATTATGATAC ATTTGTCAAA 235380
TATAAGCAAC TCACATTGAT ACATGAAACT CTATTAACCA AACCCTAGAC TTTATGTGGA 235440
TTTCACCACT GTTTCCTA ATGTTTTCTT TCTGTTCCAA GGTCCAATCT GGAATACCAC 235500
ACTGCATTTT CTTGTCATAT CTCCCTAGTC TTTTTTTGTC TGTGACAATG TCTCAGTCTT 235560
TTCTTGCTTT TCATGACCTT AACAGTCCTG AAGATCATTT GCTTTTTTTT CATAATTACA 235620
CCGGAGTTAT AGATTTTTTG AAATAATACC ACAAGGGCAA AGGGCCCTTC TTGTCACATC 235680
ATTTTAGGGA GAACATGATA TCCACATGAC ATCACTGATA TTAACCTTCA TCATGTGGTT 235740
TAGGTAATGT TTCAGTTTCT TCTACTGCAA AGTGATTTTT TTCCCTTAAT TTAGCCACC 235800
TGAACCTATC AATTTTGTTT TCTTCCATGA CTAATACTTT TGTTATTATA GCTAAAACCT 235860

CATTGGGGCC AAATCTTAGA TCATGTAAAT TTTCTTCTAT ATTTTATTCT AAAAGCTTGT 235920
 AATGTTTGAT ACATTCTAAA AGATGTAATG TTTGATACAT TACATCTAGT CCTTTGATTT 235980
 ATTTTATAGTT ACTTTTGTAT AAGGTGTGAG AGATGTCTCC AGTTTCACTT TATTAACACA 236040
 TTGTGGTGTT CCAGTACTAT TTGTTGCTAA GACTATCTTT TTTCCATTGA TTACCTTTGC 236100
 CTTAGTTGGC AATATTTTTG TTGGTTTATT TCTAGACTGT TTATCTCATT CCACTGATTT 236160
 GTGTCTATCT TTTTGACAAA ACTGTTGATT ACAGTAAGCT TTGAAATAGT TCATTTTTTG 236220
 TGTCAACTTG ACTGAGTCAG GGGATAACCA GCTATCTGGT TAAACATTAT TTCTGGCTGT 236280
 GTTTGTGAGC GTGTTTCTGG ATGAGATTAG CCTTTGAATA GGTGATCCTA GTAAAGTAAA 236340
 CTGTCTTTCC CAGTGTGGAT GGCATTATGC CACCTGATAT TCAGGGTCTG AATAGAAGAA 236400
 AAGGCAGAGG AAGGGGGAAT TTGGGCCTTT TTTTCTGCCT CACTGCTTGA GCTGGGACAT 236460
 CTCATCTGGT CTCCTGCTCT TGAAGTGGGA TTTACATCAT CAGTTCCTCT GGTTCTCAGG 236520
 CCTTCAGATT CAGACTGAAT CATAACACCA GCTTTCCTGG GTCTCCAGCT TGCAGATTAC 236580
 AGATCATGGG ACTCCTCATC TTCCATAAAT GCATGAGCCA ATTCAGTCTA TGTCTTTGAA 236640
 AACTGCCCCA CTGCAGATTA AGGCTTTTTT CCACTAGGTG AAATAAAGAA GCTTGTTAGA 236700
 CAGATTTCCC TTCATCCAGT GCCCTCTCCT CTTTAAGTTA CAACACATTG GCTACACCTA 236760
 AGTGCAGGGG TGGGGATGAG GGTATAGTCC TCTTGTTTGC TGAGAAGAGA ACTGTATTGG 236820
 GAAAGCTCTA GAAGTGTTTG ATACATACAT AAACAAGGCA TGGTTTTTGC ACTTAATTTT 236880
 ACATTACATT TTTCCAGAA AAAAAGGAAT GTATAGGCAT CACGTAAGT TACTAGCTGG 236940
 AGTCATTCTT CCTGATTATC AAAGGTAAAC AGTTATTAAT CCTATACCAA GATGTCAAGG 237000
 AGAAGTACTT TTGGAACACA AGGAATTCTC TGGGAGTCCT TACTACTCTC AAGCCCAGTG 237060
 AAAAAGTTAA TGAAAACTA TAGTACCTTC CTATAAGCTG GATGACTAAT TACCAGGCTC 237120
 ATTTAGGAAT TTGCCTTACC AAGTAAACA TAAGGGCAGC TGAGGTGCTG ACTGAAGACA 237180
 AATGGAGCAT AGAATAAGAG TAGTAAAGAA TGCCAAAAAT GCTGTCATGT ATCCATTGAC 237240
 AAAAGGAGCT ATAAAGCCTT TAGGTATTTT CACACTTGCT CTGTTACGTA AATGTATGTG 237300
 TGTGTGTGTG TGTGTGTGTG TGTGTG 237326

(2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CGTTAGAACG CGGCTACAAT

20

(2) INFORMATION FOR SEQ ID NO:4:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

GCCGATTCAT TAATGCAGGT

20

(2) INFORMATION FOR SEQ ID NO:5:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

CTGTAAAACG ACGGCCAGTC

20

(2) INFORMATION FOR SEQ ID NO:6:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 19 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

GCAGGAAACA GCTATGACC

19

(2) INFORMATION FOR SEQ ID NO:7:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 21 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

GCATCAGCGA TTAAC TTCTA C

21

(2) INFORMATION FOR SEQ ID NO:8:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 22 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

TTGCATTGTG GTGAAATCAG GG

22

(2) INFORMATION FOR SEQ ID NO:9:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 21 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

CTGAGTAATT GTTTAAGGTG C

21

(2) INFORMATION FOR SEQ ID NO:10:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 21 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

CTGAGTAATT GTTTAAGGTG T

21

(2) INFORMATION FOR SEQ ID NO:11:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

AGAAGAGATA GATATGGTGG

20

(2) INFORMATION FOR SEQ ID NO:12:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

GAATGTGACC GTCCCATGAG

20

(2) INFORMATION FOR SEQ ID NO:13:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 28 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

CAACTGAATA TGCAGAAAAA AGTACACC

28

(2) INFORMATION FOR SEQ ID NO:14:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 21 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

AGTAGCTGGG ACTCACGGTG T

21

(2) INFORMATION FOR SEQ ID NO:15:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 21 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

AGTAGCTGGG ACTCACGGTG C

21

(2) INFORMATION FOR SEQ ID NO:16:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 21 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:
 GCGCCACCAC TCCCAGCTCA T 21

(2) INFORMATION FOR SEQ ID NO:17:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 14 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:
 TATATATATA TATA 14

(2) INFORMATION FOR SEQ ID NO:18:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 14 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:
 AAAAAAAAAA AAAA 14

(2) INFORMATION FOR SEQ ID NO:19:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 10 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:
 AGGATGGTCT 10

(2) INFORMATION FOR SEQ ID NO:20:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 12 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

TTGTTGTTGT TG

12

(2) INFORMATION FOR SEQ ID NO:21:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 14 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

CTTTTTTTTT TTTT

14

(2) INFORMATION FOR SEQ ID NO:22:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 12 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

AATAATAATA AT

12

(2) INFORMATION FOR SEQ ID NO:23:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 11 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

TTTTTTTTTT T

11

(2) INFORMATION FOR SEQ ID NO:24:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 20 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

ATATATATAT ATATATATAT

20